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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,817	08/21/2002	Nigel Dennis Griffin	78.1151-1	9775
26932 7590 06/23/2004		EXAMINER		
GRANT PRIDECO, L.P. JEFFREY E. DALY 1330 POST OAK BLVD. SUITE 2700			JENKINS, DANIEL J	
			ART UNIT	PAPER NUMBER
HOUSTON, TX 77056		1742		
			DATE MAILED: 06/23/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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r. 1.85(a).	
See 37 CFR 1.121(d).	
or form PTO-152.	
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National Stage	
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	Application No.	Applicant(s)				
Office Action Summary	10/064,817	GRIFFIN, NIGEL DENNIS				
Office Action Summary	Examiner	Art Unit				
	Daniel J. Jenkins	1742				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 Responsive to communication(s) filed on <u>15 March 2004</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary (F Paper No(s)/Mail Date 5) Notice of Informal Pat 6) Other:	e				
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- 1. The Examiner has carefully considered Applicant's Response of 3/15/04. The Examiner finds the TD proper and withdraws the double patenting rejection. However, the Examiner maintains the rejection based on Griffin et al. '447. Applicant argues that his invention is distinguished from the prior art in that Applicant's invention has a second substrate which is not disclosed by Griffin et al. The Examiner notes that the rejection includes a second substrate (20) which contains a polycrystalline diamond component, which is disclosed as one of the materials by the Applicant for the second substrate (see Specification [0011], and which is not precluded by Applicant's claim language.
- 2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 3. Claims 1-9, 11-16 and 18-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Griffin et al. '447.

Griffin et al. '447 discloses a method of making a cutter (see figures 3 and 4 for engagement) comprising :

providing a first substrate (19);

providing a second substrate (20);

providing a polycrystalline/catalyst component (21); and

bonding the first and second substrate to the polycrystalline/catalyst component under high temperature and pressure (col. 6, lines 43-51).

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Griffin et al. '447 further discloses wherein the catalyst comprises cobalt (col. 7, lines 6-9).

Griffin et al. '447 further discloses wherein the cutter is engaged on a third substrate (28).

Griffin et al. '447 further discloses wherein the first substrate is in annular form.

4. Claims 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Griffin et al. '447.

Griffin et al. '447 discloses the invention substantially as claimed (see paragraph 2 above). However, Griffin e al. '447 do not disclose wherein the first substrate is grooved.

It is common knowledge in the same field of endeavor to groove a surface of a substrate cutter in the same field of endeavor for the purpose of improving the bonding between a substrate and a diamond/binder component.

It would have been obvious to one having ordinary skill in the art at the time of the invention to groove the substrate (19) in the invention of Griffin et al. '447 in order to improve the bond to the diamond/binder component.

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Jenkins whose telephone number is 571-272-1242. The examiner can normally be reached on M-TH6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1242. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel J. Jenkins Primary Examiner Art Unit 1742